

PATENT APPLICATION
Docket No.: 10237.28

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:		
	Sachin Govind Deshpande	
Serial No.:	10/757,102	
Filing Date:	January 14, 2004	Art Unit 2152
Title:	SYSTEMS AND METHODS FOR PROVIDING A DISCOVERY PROTOCOL	Conf. No. 2922
Examining Attorney:	Tariq S. Najee-Ullah	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

DECLARATION UNDER 37 C.F.R. § 1.132

I the undersigned, declare that:

1. I am an attorney at Kirton & McConkie, and have represented the Applicant and/or the Assignee of the above-referenced patent application, Sharp Laboratories of America, for a number of years.
2. I was personally and materially involved in all events discussed herein, and have personal knowledge of the facts set forth below.

3. Kirton & McConkie received on August 20, 2003 a letter dated August 13, 2003, enclosing an invention disclosure for the invention disclosed in the above-referenced application. Attached at Exhibit A is a true, redacted copy of the invention disclosure and letter received by us. The invention disclosure was by the inventor, Sachin Govind Deshpande. Ex. A.

4. The invention disclosure was utilized in preparing the above-referenced patent application, and shows conception of the invention. The invention disclosure is signed and dated by the inventor and two witnesses on July 16, 2002. Ex. A, see bottom of each page of disclosure.

5. Also included in the letter were two additional invention disclosures by the same inventor. (See Ex. A, Letter from David Ripma, referencing the additional disclosures titled “Dynamic Loading of Applications Over Network” and “An UPnP Remote Camera Control Service.” Ex. A (letter). At that time, we began preparing the patent applications for all three disclosed inventions, within the time constraints of our then-existing docket.

6. The preparation and review process for the three applications progressed normally and continually over the next approximately four months. This process included preparation of invention summaries for review by the client and inventor for all three applications, which were sent to the client on September 2, 2003. Exhibit B includes a true redacted copy of our letter of September 2, 2003.

7. Our document management system includes a transaction history feature that tracks access to the files contained therein. Exhibit C includes a true copy of a partial transaction history for the Word-editable file representing the above-referenced patent application. This

history shows that the document was created on August 26, 2003, was edited in September 2003, and was further accessed and/or edited in November 2003 and January 8, 2003. Ex. C.

8. Exhibit D includes true copies of correspondence related to the three applications, such as internal correspondence at Kirton & McConkie and correspondence between the inventor, Kirton & McConkie, and the Assignee between September 15, 2003 and January 14, 2004, exemplary of correspondence that occurred between the parties for all three applications as the applications were being prepared.

9. Exhibits E and F include true copies of partial transaction histories for the other files representing the two other applications by the current inventor, serial numbers 10/712,241 and 10/738,475, respectively. The file history for the file that resulted in patent application serial no. 10/712,241 that was filed on November 13, 2003 shows creation of the file on August 25, 2003, editing in September 2003 and in October 2003, slightly prior to the application's filing date.

Ex. E. The file history for the file that resulted in patent application serial No. 10/738,475 that was filed on December 17, 2003 shows creation of the file on August 26, 2003, editing in September 2003 and in December 2003, slightly prior to the application's filing date. Ex. F.


10. The above-referenced application was the last application to be completed, and was filed on January 14, 2004, as soon as the review and approval process was completed.

11. From the time the invention disclosure was received to the date of filing of the above-referenced application, we diligently sought to prepare and file the patent applications as soon as possible within the time constraints of our then-existing docket, which included matters for many other clients, and the review and revision process with the inventor and the assignee for all three patent applications by the inventor.

12. All statements made of my own knowledge are true and all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated this 21 day of October, 2008.

Respectfully Submitted,



Michael F. Krieger
Attorney for Applicant
Registration No.: 35,232

KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
Telephone: (801) 321-4814
Facsimile: (801) 321-4893

Exhibit A

Letter dated August 13, 2003
and included patent disclosure
document



Sharp Laboratories of America, Inc.

5750 NW Pacific Rim Blvd.

Camas, WA 98607

Phone (360) 817-8400

Fax (360) 817-8436

RECEIVED ✓

AUG 20 2003

August 13, 2003

KIRTON & McCONKIE

Michael F. Krieger
Kirtan & McConkie
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, UT 84145-0120

Re: SLA 1250 .27
Inventor: Sachin G. Deshpande and Jon A. Fairhurst
Title: Dynamic Loading of Applications Over Network

SLA1252 .28
Inventor: Sachin G. Deshpande
Title: Aquos Discovery Protocol

SLA1402 .29
Inventor: Sachin G. Deshpande
Title: An UPnP Remote Camera Control Service

Dear Michael:

Enclosed are the above-identified disclosures for you to prepare patent applications.

Please work directly with the inventors. I would like you to prepare the applications for filing, including informal drawings. You should prepare the formal filing

Redacted



Michael Krieger
August 13, 2003
Page 2 of 2

Redacted

Very truly yours,

A handwritten signature in black ink, appearing to read "David C. Ripma", followed by a large, stylized circular flourish or initial.

David C. Ripma
Patent Counsel

Dripma@sharplabs.com
Sharp Labs of America

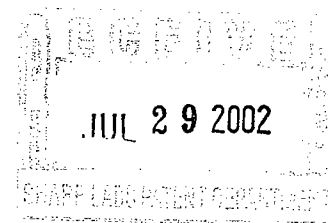
DCR:klm
Enclosures

44
A. 2

1 Technical and Marketing Evaluation

Redacted

Redacted



SLA Docket No. _____

1. **Descriptive
Title
of Invention:**

Aquos Discovery Protocol

2. **Inventor(s):**

Full Name:

Sachin

Govind

Deshpande

First

Middle

Last

Address:

16900 SE, 26th Dr.
#T131

Vancouver

WA

98683

Clark

Street

City

State

Zip

County

Citizenship:

India

Telephone:

360-944-0731

360-817-8486

Home

Company

Inventor(s):

Full Name:

First

Middle

Last

Address:

Street

City

State

Zip

County

Citizenship:

Telephone:

Home

Company

Inventor(s):

Full Name:

First

Middle

Last

Address:

Street

City

State

Zip

County

Citizenship:

Telephone:

Home

Company

Supervisor's Acknowledgment:

"I believe this disclosure is novel and complete and should be submitted to the Patent Review Committee."

Supervisor's Signature: _____

Date: _____

7/19/2002

Supporting Group

☐ CRDG

☒ AVSG

☐ CSG

☐ ISG

☐ DSG

☐ ICG

☐ LCDG

☐ Other:

<u>S. G. Deshpande</u>	<u>7/16/2002</u>		
Inventor Signature	Date		
		<u>John Miller</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date
		<u>Edwin G. Brown</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date

SLA Docket No. _____

3. Project & Supervisor:

Supervisor's Name: Dr. Shawmin Lei
Supervisor's Title: Manager, Image coding and communications
Project Number/Name: Open Aquos

4. Conception of the Invention:

Date Conceived: 6/3/02
Date of first Written Description: 6/3/02
Notebook & Page No. or File Archive: M:\sachind\openaquos\docs\adp.doc
Date first explained to others (whom?): _____
Planned Application for the Invention: Open Aquos

5. Construction & Test of First Prototype Embodying the Invention:

Date First Prototype Completed: _____
Part Number/Product Description: _____
Date of First Successful Test: _____
Successful Operation Witnessed By: _____

**6. Public Disclosure of Invention (Presentation at public meeting or publication)
(NOTE: Patent Application MUST be filed prior to any public disclosure.):**

Date of First Public Disclosure: _____
Setting (Conference/Journal Name): _____
Title of Paper or Presentation: _____
Type of Disclosure (Written/Verbal): _____
Does Data Sheet or Application Note Disclose the Invention (when)? _____

7. What is the field of the invention (Invention relates to...):

The invention relates to a discovery protocol, which would allow a PC and Aquos TV to discover each other on a home network.

8. What is the problem solved by your invention? How is it solved in the prior art (do not put search pages here)?

We define a protocol which allows a home PC to discover Aquos TV or the Aquos TV to discover home PC. The Aquos Discovery Protocol is lightweight and has support for versioning.

<u>S. G. Deshpande</u>	<u>7/16/2002</u>		
Inventor Signature	Date		
		<u>Kim Kell</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date
		<u>Edwin G. Brown</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date

In the prior art, a variety of discovery protocols have been defined. This includes the salutation protocol, service location protocol (SLP), Sun's JINI protocol, Universal plug and play (UpnP) and simple service discovery protocol (SSDP).

9. How is your solution different from the prior art (one paragraph or list)?

Majority of the currently existing protocols are heavyweight protocols. The proposed protocol is lightweight. We use a unique combination of UDP broadcast request and Unicast reply transaction for the discovery. We provide support for versioning, which will allow the Aquos TV to only accept and make connections to a correct version of Home PC. We have provision to handle responses from multiple PCs.

In the prior art, the salutation protocol defines an abstract model with three components: Client, Server, and Salutation Manager (SLM). Salutation defines its protocol based on SunRPC. The service location protocol (SLP) defines an abstract architecture consisting of "User Agents" (UA) (clients), "Service Agents" (SA) (services) and "Directory Agents" (DA) (directories). Sun's JINI protocol is largely defined as exchanges of serialized Java objects, mostly via Java Remote Method Invocation (RMI). UPnP is a Microsoft standard for spontaneous configuration. UPnP handles network address resolution, and coupled with the IETF proposal Simple Service Discovery Protocol (SSDP) it provides higher level service discovery. UPnP has a similar architecture to Salutation and SLP.

10. Please give a detailed description of your invention, include any graphics, notebook pages or other material necessary to understand your invention.

Here is a brief description of our proposed protocol:

In the following we use the term client to refer to Aquos TV and the term server to refer to Home PC.

The client broadcasts on UDP on the local network, a OA_NW_REQUEST message to discover the server. The server send a unicast reply OA_NW_REPLY on UDP to the client. The OA_NW_REPLY message contains information about the server IP address and TCP port where client can make a connection. Each message consists of a random Identifier (RID), which is same for the request-response transaction. This RID is used to identify a message transaction request-response pair. A possible message structure for Request and Response messages is shown below, using pseudo-code.

OA_NW_REQUEST message structure:

```
rid=generateRID(); // function to generate random ID for this
```

<u>S. G. Deshpande</u>	<u>7/16/2002</u>		
Inventor Signature	Date		
		<u>[Signature]</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date
		<u>Edwin G. Brown</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date

//message

```
packet[0]=((rid & 0xff000000)>>24);
packet[1]=((rid & 0x00ff0000)>>16);
packet[2]=((rid & 0x0000ff00)>>8);
packet[3]=((rid & 0x000000ff));
packet[4]=OA_NW_REQUEST;
packet[5]=OA_START_NUMBER_HOPS;
packet[6]=OA_NW_CLIENT_VERSION;
packet[7]=OA_NWREQUEST_PAYLOADLENGTH;
```

OA_NW_REPLY message structure:

```
rid=getOANWREUESTRID(); // function to retrieve RID from the
                          // client OANWREQUEST message
```

```
packet[0]=((rid & 0xff000000)>>24);
packet[1]=((rid & 0x00ff0000)>>16);
packet[2]=((rid & 0x0000ff00)>>8);
packet[3]=((rid & 0x000000ff));
packet[4]=OA_NW_REPLY;
packet[5]=OA_START_NUMBER_HOPS;
packet[6]=OA_NW_SERVER_VERSION;
packet[7]=OA_NWREPLY_PAYLOADLENGTH;
packet[8]=((OA_NW_TCP_LISTEN_PORT & 0x0000ff00)>>8);
packet[9]=((OA_NW_TCP_LISTEN_PORT & 0x000000ff));
```

A client may receive multiple OA_NW_REPLY messages (from multiple servers) for its OA_NW_RESPONSE message. The client will make a decision to choose a particular server for connection. This may be based on the server version (OA_NW_SERVER_VERSION). Alternately the client may choose to connect to the first server from which OA_NW_REPLY is obtained. Some other strategy may also be used.

The client follows a retransmission algorithm for sending OA_NW_REQUEST. The retransmission algorithm uses a randomized exponential backoff strategy. This helps to reduce the network traffic. The user is given a status indication while the client tries to locate the server. The user is prompted to start the server (Home PC) if no discovery is made after N retransmissions. Reliable protocol (TCP/IP) is used for server-client connection after the initial discovery. A pseudo-code illustrating the exponential backoff strategy is shown below.

```
private DatagramSocket mySocket;
```

<u>S. G. Deshpande</u> Inventor Signature	<u>7/16/2002</u> Date		
		<u>John Wells</u> Witnessed & Understood By	<u>7/16/02</u> Date
		<u>Edwin G. Brown</u> Witnessed & Understood By	<u>7/16/02</u> Date

```
private DatagramPacket myPacket;
private static final int sendPort=10088;
private static final int INITIAL_SLEEP_DURATION=1000;
private static final int nTransmissions=10;
private int attemptNumber=1;
private int sleepDuration=INITIAL_SLEEP_DURATION;
private double scaleFactor=1.5;

try {
    mySocket = new DatagramSocket();
}
catch( SocketException Se ) {
    Se.printStackTrace();
}

myPacket = new DatagramPacket( packet , packet.length,
    InetAddress.getByname( "255.255.255.255" ), sendPort);

while(dp.bLocatedServer!=true)
{
    mySocket.send( myPacket ); //mySocket is
    System.out.println("Locating server : attempt
    "+attemptNumber);
    try {
        Thread.sleep(sleepDuration);
    }catch(InterruptedException Ie){} attemptNumber++;
    sleepDuration=(int) (sleepDuration*scaleFactor);
    if((attemptNumber%(nTransmissions+1))==0)
    {
        System.out.println("Could not locate server. \nPlease make
        sure your home PC is turned on \nand Aquos network card is
        installed on the PC.");
        sleepDuration= INITIAL_SLEEP_DURATION;
    }
}
```

The client and server are both capable of handling a network disconnect. Essentially the initial discovery protocol is repeated after a network disconnect.

11. What other embodiments or examples are there of your invention?

<u>S.L. Deshpande</u>	<u>7/16/2002</u>		
Inventor Signature	Date		
		<u>John M. Wells</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date
		<u>Edwin G. Brown</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date

The proposed protocol can be used for as a simple discovery protocol for N devices in peer to peer as well as server client mode.

Redacted

<u>S. G. Deshpande</u>	<u>7/16/2002</u>		
Inventor Signature	Date		
		<u>[Signature]</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date
		<u>Edwin G. Brown</u>	<u>7/16/02</u>
Inventor Signature	Date	Witnessed & Understood By	Date

Exhibit B

Letter dated September 2, 2003
from Michael F. Krieger to
David Ripma, including
invention summary.

MICHAEL F. KRIEGER
REGISTERED PATENT ATTORNEY

**KIRTON &
McCONKIE**
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
1800 EAGLE GATE TOWER
60 EAST SOUTH TEMPLE
P.O. BOX 45120
SALT LAKE CITY, UTAH 84145-0120
www.kmclaw.com

FAX (801) 321-4893
TELEPHONE (801) 328-3600
E-MAIL: mkrieger@kmclaw.com

September 2, 2003

David Ripma
Sharp Laboratories of America, Inc.
5750 NW Pacific Rim Blvd.
Camas, Washington 98607

Re: Invention Summaries for:

Title: DYNAMIC LOADING OF APPLICATIONS OVER NETWORK
Inventors: Sachin Deshpande and Jon Fairhurst
Your Ref.: SLA1250
Our Ref: 10237.27

Title: AQUOS DISCOVERY PROTOCOL
Inventors: Sachin Deshpande
Your Ref.: SLA1252
Our Ref: 10237.28

Title: AN UPnP REMOTE CAMERA CONTROL SERVICE
Inventors: Sachin Deshpande
Your Ref.: SLA1402
Our Ref: 10237.29

Dear David:

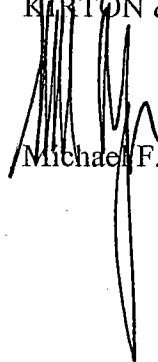
This is responsive to your request to prepare the above-referenced, non-provisional patent applications, including drawings. For each application, please find enclosed an Invention Summary that includes an exemplary claim and cost estimate. As provided in the Invention Summaries, we plan to provide a draft of each application to the inventors by September 30, 2003.

David Ripma
September 2, 2003
Page 2

Should you have any questions, please feel free to contact our office.

Cordially,

KIRTON & McCONKIE



Michael F. Krieger

DBT:lc
703544.1

enclosure: Invention Summaries (3)

CC: Kimberly Mullen

Invention Summary

Title: AQUOS DISCOVERY PROTOCOL
Inventors: Sachin Deshpande
Your Ref.: SLA1252
Our Ref: 10237.28

Exemplary Claim:

Redacted

Public Disclosure/Critical Dates:

We are not aware of any public disclosure, but are aware that the application needs to be returned for review by the developers by **September 30, 2003**.

Cost Estimate:

Redacted

Redacted

::ODMA\PCDOCS\DOCS\702483\1

Exhibit C

Partial transaction history of the
patent application file for the
instant application (Serial No.
10/757,102)

History - [Patent Application]

Details

Date	Time	Type	Version	User
1/8/2004	4:27:41 PM	Print	1	DTINGEY
1/8/2004	4:23:46 PM	Edit	1	DTINGEY
1/8/2004	4:23:11 PM	Edit	1	DTINGEY
12/10/2003	1:30:24 PM	Access	1	DTINGEY
11/13/2003	5:15:00 PM	Print	1	DTINGEY
11/13/2003	4:59:25 PM	Access	1	DTINGEY
10/1/2003	1:07:22 PM	Access	1	FUSION
9/30/2003	3:07:49 PM	Print	1	LCRANNEY
9/30/2003	3:07:40 PM	Access	1	LCRANNEY
9/30/2003	2:55:08 PM	Edit	1	DTINGEY
9/30/2003	2:54:33 PM	Access	1	DTINGEY
9/27/2003	9:52:59 PM	Access	1	DTINGEY
9/27/2003	9:51:55 PM	Access	1	DTINGEY
9/27/2003	2:54:18 PM	Mail Copy	1	DTINGEY
9/27/2003	2:04:10 PM	Edit	1	DTINGEY
9/27/2003	12:47:58 ...	Edit	1	DTINGEY
9/27/2003	12:47:54 ...	Edit	1	DTINGEY
9/27/2003	12:29:39 ...	Access	1	DTINGEY
9/27/2003	12:28:55 ...	Access	1	DTINGEY
9/26/2003	4:31:48 PM	Print	1	DTINGEY
9/26/2003	4:23:04 PM	Edit	1	DTINGEY
9/26/2003	4:23:00 PM	Edit Profile		DTINGEY
9/26/2003	4:22:50 PM	Edit	1	DTINGEY
9/26/2003	4:20:31 PM	Edit	1	DTINGEY
9/26/2003	2:56:39 PM	Edit	1	DTINGEY
9/25/2003	2:16:24 PM	Print	1	JJOHNSON
9/25/2003	2:15:37 PM	Access	1	JJOHNSON
8/27/2003	3:45:12 PM	Print	1	DTINGEY
8/27/2003	3:44:38 PM	Access	1	DTINGEY
8/26/2003	9:18:34 AM	Edit	1	LCRANNEY
8/26/2003	9:18:19 AM	Edit	1	LCRANNEY
8/26/2003	9:14:12 AM	Edit	1	LCRANNEY
8/26/2003	9:08:42 AM	Edit	1	LCRANNEY
8/26/2003	9:06:18 AM	Edit	1	LCRANNEY
8/26/2003	8:56:58 AM	Edit	1	LCRANNEY
8/26/2003	8:50:01 AM	Edit	1	LCRANNEY
8/26/2003	8:45:39 AM	Edit	1	LCRANNEY
8/26/2003	8:39:51 AM	Edit	1	LCRANNEY
8/26/2003	8:34:18 AM	Edit	1	LCRANNEY
8/26/2003	8:34:17 AM	Edit	1	LCRANNEY
8/26/2003	8:33:58 AM	Copied From	1	LCRANNEY
8/26/2003	8:33:51 AM	Edit	1	LCRANNEY

Summary

Date Created: 8/26/2003 Total Time: 4 hour(s) 36 mi

Last Edit: 1/8/2004 Typing Time: 1 hour(s) 13 mi

Process Date: 5/20/2008 Keystrokes: 9070

Close

Exhibit D

Correspondence related to the
applications dated between
September 15, 2003 and
January 14, 2004

Michael Krieger

From: Tingey, David [DTingey@kmclaw.com]
Sent: Monday, September 15, 2003 1:11 PM
To: Michael Krieger
Subject: Sharp Applications

Mike,

In wanting to keep you informed, here is a brief status report on all of the Sharp applications. Invention summaries, including preliminary claims, were prepared and forwarded to Dave Ripma for all of the applications. I have started all of the applications, and they are currently in a variety of different states. For example, on your inbox you will find the first application that has been prepared, reviewed by the inventor, and modified to include the inventor's comments. It is ready for execution of the signature documents and then the filing of the application. The letter to Dave Ripma and the signature documents have been prepared. Inventors are currently reviewing another application. Upon receipt of two other drawing sets from Mark, I will be forwarding those up to the inventors. As mentioned above, I have begun the others and will have them completed by our deadline. I have two weeks and two days remaining.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Tingey, David [DTingey@kmclaw.com]
Sent: Thursday, September 25, 2003 10:12 AM
To: Michael Krieger
Subject: Status of Sharp Applications

Mike,

Responsive to your request, the following is a status report on all of the outstanding Sharp Applications:

Redacted

10237.27 (SLA) - I expect to get the formal drawings tomorrow and will forward the application to the inventor tomorrow.

10237.28 (SLA) - This is the one that the client asked that we include a lot of drawings. I received a number of screen shots from the inventor and I expect to get the formal drawings tomorrow. I plan to forward the application to the inventor on Saturday.

10237.29 (SLA) - I expect to get the formal drawings tomorrow and will forward the application to the inventor tomorrow.

Redacted

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Tingey, David [DTingey@kmclaw.com]
Sent: Thursday, September 25, 2003 6:38 PM
To: 'kmullen@sharplabs.com'
Cc: Michael Krieger
Subject: K&M 10237.27 (SLA1250) Signature Documents
Attachments: 708940v1.DOC; 708939v1.DOC; 708935v1.DOC

Kimberly,

Attached are the signature documents for the above-referenced patent application.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Tingey, David [DTingey@kmclaw.com]
Sent: Thursday, September 25, 2003 6:54 PM
To: 'kmullen@sharplabs.com'
Cc: Michael Krieger
Subject: K&M 10237.28 (SLA1252) Signature Documents
Attachments: 708956v1.DOC; 708951v1.DOC; 708944v1.DOC

This message has been archived by the email administrator.

To recall this extended message click [here](#)

Kimberly,

Attached are the signature documents for the above-referenced patent application.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Tingey, David [DTingey@kmclaw.com]
Sent: Thursday, September 25, 2003 7:20 PM
To: 'kmullen@sharplabs.com'
Cc: Michael Krieger
Subject: K&M 10237.29 (SLA1402) Signature Documents
Attachments: 708957v1.DOC; 708952v1.DOC; 708945v1.DOC

Kimberly,

Attached are the signature documents for the above-referenced patent application.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Tingey, David [DTingey@kmclaw.com]
Sent: Friday, September 26, 2003 2:07 PM
To: 'Deshpande, Sachin'
Cc: Michael Krieger
Subject: Patent Application (SLA1250; Our Docket No. 10237.27)
Attachments: Patent Application_v1.DOC; 10237-27.pdf

Sachin,

Please find attached a copy of the above-referenced patent application, including drawings. The application is in a Microsoft Word format and the drawings are in a PDF format. Please review and have Jon Fairhurst review the application in terms of accuracy, completeness and correct use of terminology. Upon your review of the application, we will plan to incorporate any corrections that you may feel are required so that the application may be filed with the United States Patent and Trademark Office.

If you have any questions, please feel free to contact me.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Deshpande, Sachin [sdeshpande@sharplabs.com]
Sent: Monday, September 29, 2003 1:28 PM
To: David Tingey
Cc: Michael Krieger; 'Fairhurst, Jon'
Subject: RE: Patent Application (SLA1250; Our Docket No. 10237.27)
Attachments: Patent Application1250v1.DOC

David,
Thanks for the patent application draft.
I have reviewed it.
I have marked my comments using Word's track changes feature.
I have attached the modified draft.
Jon Fairhurst may send you additional comments.
Please let me know if you have any comments or questions.
Thanks and best regards,
Sachin

-----Original Message-----

From: David Tingey [mailto:dtingey@kmclaw.com]
Sent: Friday, September 26, 2003 1:07 PM
To: sdeshpande@sharplabs.com
Cc: Michael Krieger
Subject: Patent Application (SLA1250; Our Docket No. 10237.27)

Sachin,

Please find attached a copy of the above-referenced patent application, including drawings. The application is in a Microsoft Word format and the drawings are in a PDF format. Please review and have Jon Fairhurst review the application in terms of accuracy, completeness and correct use of terminology. Upon your review of the application, we will plan to incorporate any corrections that you may feel are required so that the application may be filed with the United States Patent and Trademark Office.

If you have any questions, please feel free to contact me.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: David Tingey
Sent: Friday, October 31, 2003 5:50 PM
To: 'Deshpande, Sachin'
Cc: 'Mullen, Kimberly'
Subject: Patent Application (SLA1250; Our Docket No. 10237.27)
Attachments: f22g01!.DOC

Sachin,

Further to our discussions, please find attached a final draft of the above-referenced patent application, which includes all of the comments that have been received by you and Jon Fairhurst. Upon your approval and receipt of the executed signature documents, we will plan to lodge it with the United States Patent Office.

I will look forward to receiving the comments for SLA 1402 (Our Docket No. 10237.29) soon, as discussed.

I greatly appreciate your time and assistance with each of the patent applications. Should you have any questions or concerns, please feel free to contact me directly 801-323-5986.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

Michael Krieger

From: Mullen, Kimberly [kmullen@sharplabs.com]
Sent: Wednesday, November 05, 2003 2:58 PM
To: David Tingey; Mullen, Kimberly
Cc: Michael Krieger
Subject: RE: Patent Application (SLA1250; Our Docket No. 10237.27)

David:

I will send out the signature documents today to your attention. Let me know if you need anything further. Thanks.

Kimberly L. Mullen
Patent Assistant
Sharp Labs of America
T: 360-817-7583
F: 360-817-7447
kmullen@sharplabs.com

-----Original Message-----

From: David Tingey [mailto:dtingey@kmclaw.com]
Sent: Wednesday, November 05, 2003 1:55 PM
To: Mullen, Kimberly
Cc: Michael Krieger
Subject: RE: Patent Application (SLA1250; Our Docket No. 10237.27)

Kim,

Thank-you for your email message and for your assistance in getting the signature documents executed.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

-----Original Message-----

From: Mullen, Kimberly [mailto:kmullen@sharplabs.com]
Sent: Wednesday, November 05, 2003 2:51 PM
To: Deshpande, Sachin; David Tingey
Subject: RE: Patent Application (SLA1250; Our Docket No. 10237.27)

I do have those. I will bring them up for your signature today.

Kim

-----Original Message-----

From: Deshpande, Sachin
Sent: Wednesday, November 05, 2003 1:42 PM
To: 'David Tingey'; Deshpande, Sachin
Cc: Mullen, Kimberly
Subject: RE: Patent Application (SLA1250; Our Docket No. 10237.27)

David,
Thanks for your call today.
I have now reviewed the new claims for SLA1250
and they look good.
Thanks for your efforts.
Regards,
Sachin

Kim,
I can sign the papers for SLA1250.
Do you have those?
Thanks and regards,
Sachin

-----Original Message-----

From: David Tingey [mailto:dtingey@kmclaw.com]
Sent: Friday, October 31, 2003 3:50 PM
To: Deshpande, Sachin
Cc: Mullen, Kimberly
Subject: Patent Application (SLA1250; Our Docket No. 10237.27)

Sachin,

Further to our discussions, please find attached a final draft of the above-referenced patent application, which includes all of the comments that have been received by you and Jon Fairhurst. Upon your approval and receipt of the executed signature documents, we will plan to lodge it with the United States Patent Office.

I will look forward to receiving the comments for SLA 1402 (Our Docket No. 10237.29) soon, as discussed.

I greatly appreciate your time and assistance with each of the patent applications. Should you have any questions or concerns, please feel free to contact me directly 801-323-5986.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893

email: dtingey@kmclaw.com

Michael Krieger

From: Michael Krieger
Sent: Tuesday, November 11, 2003 11:02 AM
To: David Tingey

Please tell Sachen that I will be at Sharp Labs on Friday and would like to meet him to finalize these applications.

Michael F. Krieger
60 East South Temple
Eagle Gate Tower Suite 1800
Salt Lake City, UT. 84145-0120
Telephone (801) 321-4814
Facsimile (801) 321-4893

WARNING: This e-mail is confidential and may be subject to legal privilege. It is intended solely for the recipient(s) named above. If you are not an intended recipient, please so advise, by calling Mike Krieger at 801-321-4814, and kindly delete this e-mail permanently from your system. Any unauthorized review, copying or other handling of this e-mail is strictly prohibited.

David Tingey

From: Deshpande, Sachin [sdeshpande@sharplabs.com]
Sent: Monday, January 05, 2004 10:26 AM
To: David Tingey
Cc: Mullen, Kimberly
Subject: RE: Patent Applications (SLA1252; Our Docket No. 10237.28) and (SLA1402; Our Docket No. 10237.29)



SLA1252Patent
Application_v3.D...

David,

I have attached to this email a revised version of SLA1252.
I have used Microsoft Word's track changes feature.
Please let me know if you have any questions.
Once these changes are incorporated we can file it.
Thanks for all your help,
Best Regards and happy new year,
Sachin



Sharp Laboratories of America, Inc.

5750 NW Pacific Rim Blvd.

Camas, WA 98607

Phone (360) 817-8400

Fax (360) 817-8436

January 11, 2004

Michael F. Krieger
Kirton & McConkie
1800 Eagle Gate Tower
60 East South Temple
PO Box 45120
Salt Lake City, UT 84145-0120

Re: Patent Application: Systems and Methods for Providing an Aquos Discovery
Protocol
Inventors: Sachin Deshpande
SLA No.: SLA1252
Your Ref. No.: 10237.28

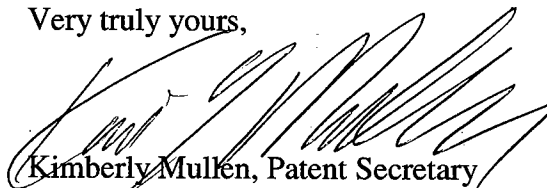
Dear Michael:

Enclosed please find the following fully signed originals in regards to the above patent application:

1. Assignment
2. Declaration
3. Power of Attorney.

Please let me know if you have any questions.

Very truly yours,



Kimberly Mullen, Patent Secretary
Sharp Laboratories of America, Inc.

Enclosures

RECEIVED *SP*

JAN 14 2004

KIRTON & McCONKIE



David Tingey

From: David Tingey
Sent: Wednesday, January 14, 2004 4:21 PM
To: 'Mullen, Kimberly'
Cc: Michael Krieger
Subject: Patent Application (SLA1252; Our Docket No. 10237.28)

Kimberly,

The purpose for this correspondence is to confirm that the executed signature documents for the above-referenced application were received today. Accordingly, we are filing the application today with the United States Patent Office and will forward a copy of the application as filed. Thank-you for your assistance.

Best regards,

DAVID B. TINGEY
KIRTON & McCONKIE
1800 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
telephone: (801) 328-3600
facsimile: (801) 321-4893
email: dtingey@kmclaw.com

1/14/2004

Exhibit E

Partial transaction history of the
patent application file for U.S.
Patent Application Serial No.
10/712,241

History - [Patent Application]

Details

Date	Time	Type	Version	User
10/31/2003	4:49:14 PM	Access	1	DTINGEY
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10/31/2003	4:28:45 PM	Edit	1	DTINGEY
10/31/2003	4:22:29 PM	Edit	1	DTINGEY
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Summary

Date Created: 8/25/2003 Total Time: 21 hour(s) 21 m
 Last Edit: 10/31/2003 Typing Time: 3 hour(s) 43 m
 Process Date: 12/17/2007 Keystrokes: 23291

Close

Exhibit F

Partial transaction history of the
patent application file for U.S.
Patent Application Serial No.
10/738,475

History - [Patent Application]

Details

Date	Time	Type	Version	User
12/17/2003	1:38:00 PM	Print	1	DTINGEY
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11/13/2003	4:59:49 PM	Access	1	DTINGEY
10/1/2003	1:07:23 PM	Access	1	FUSION
9/30/2003	3:08:07 PM	Print	1	LCRANNEY
9/30/2003	3:07:58 PM	Access	1	LCRANNEY
9/30/2003	2:55:46 PM	Access	1	DTINGEY
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8/26/2003	4:44:14 PM	Edit	1	LCRANNEY
8/26/2003	4:41:19 PM	Edit	1	LCRANNEY
8/26/2003	4:32:02 PM	Edit	1	LCRANNEY
8/26/2003	4:21:00 PM	Edit	1	LCRANNEY
8/26/2003	3:16:30 PM	Edit	1	LCRANNEY
8/26/2003	3:13:53 PM	Edit	1	LCRANNEY

Summary

Date Created: 8/26/2003 Total Time: 13 hour(s) 17 m
 Last Edit: 12/17/2003 Typing Time: 6 hour(s) 6 min
 Process Date: 10/9/2007 Keystrokes: 36099

Close